

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An optical transmission line comprising:
 - an optical transmission fiber having a chromatic dispersion of +4 to +10 $\text{ps}\cdot\text{nm}^{-1}\cdot\text{km}^{-1}$ and a dispersion slope of 0 to $\pm 0.04 \text{ ps}\cdot\text{nm}^{-2}\cdot\text{km}^{-1}$ at the 1550 nm wavelength and installed in a relay section; and
 - a module made of a dispersion compensating optical fiber having a chromatic dispersion of $-40 \text{ ps}\cdot\text{nm}^{-1}\cdot\text{km}^{-1}$ or less and a dispersion slope of $-0.10 \text{ ps}\cdot\text{nm}^{-2}\cdot\text{km}^{-1}$ or less at the 1550 nm wavelength,

wherein said dispersion compensating optical fiber has a length that is sufficient to substantially compensate the chromatic dispersion of said optical transmission fiber at the 1550 nm wavelength and loss of said module at the 1500 nm wavelength is not more than 0.035dB per unit kilometer of said optical transmission fiber

~~an average chromatic dispersion of the optical transmission line is not less than 0.1 ps/nm/km and not more than 0.1 ps/nm/km from 1.5 μm to 1.6 μm inclusive.~~
2. (Original) An optical transmission line according to claim 1, wherein said optical transmission fiber as a dispersion slope of +0.01 to +0.03 $\text{ps}\cdot\text{nm}^{-2}\cdot\text{km}^{-1}$.
3. (Original) An optical transmission line according to claim 1, wherein said optical transmission fiber has an effective area of $45 \mu\text{m}^2$ or more at the 1550 nm wavelength.
4. (Original) An optical transmission line according to claim 1, wherein said dispersion compensating optical fiber has a chromatic dispersion of $-80 \text{ ps}\cdot\text{nm}^{-1}\cdot\text{km}^{-1}$ or less and a dispersion slope of $-0.20 \text{ ps}\cdot\text{nm}^{-2}\cdot\text{km}^{-1}$ or less.

5. (Original) An optical transmission line according to claim 4, wherein said dispersion compensating optical fiber has a chromatic dispersion of $-100 \text{ ps} \cdot \text{nm}^{-1} \cdot \text{km}^{-1}$ or less.

6. (Currently amended) An optical transmission system comprising:
an optical transmission fiber having a chromatic dispersion of $+4$ to $+10 \text{ ps} \cdot \text{nm}^{-1} \cdot \text{km}^{-1}$ and a dispersion slope of 0 to $+0.04 \text{ ps} \cdot \text{nm}^{-2} \cdot \text{km}^{-1}$ at the 1550 nm wavelength and installed in a relay section;

a module made of a dispersion compensating optical fiber having a chromatic dispersion of $-40 \text{ ps} \cdot \text{nm}^{-1} \cdot \text{km}^{-1}$ or less and a dispersion slope of $-0.10 \text{ ps} \cdot \text{nm}^{-2} \cdot \text{km}^{-1}$ or less at the 1550 nm wavelength;

a transmitter; and

a receiver, wherein said dispersion compensating optical fiber has a length that is sufficient to substantially compensate the chromatic dispersion of said optical transmission fiber at the 1550 nm wavelength and loss of said module at the 1550 nm wavelength is not more than 0.035 dB per unit kilometer of said optical transmission fiber.

7. (Cancelled)

8. (Cancelled)